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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/699,643	11/04/2003	Fangguo Zhang	ZHAN3004/EM	5378		
23364	7590 11/10/2004		EXAMINER			
BACON & THOMAS, PLLC			ELISCA, PIERRE E			
625 SLATER FOURTH FL			ART UNIT	PAPER NUMBER		
ALEXANDRIA, VA 22314			3621			
			DATE MAILED: 11/10/2004	DATE MAILED: 11/10/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)		m		
Office Action Summary		10/699,6	43	ZHANG ET AL.				
		Examine	•	Art Unit				
		Pierre E.		3621				
Period fo	The MAILING DATE of this communication a or Reply	appears on the	e cover sheet with the c	correspondence ac	ddress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the marked patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no ev reply within the stat od will apply and w tute, cause the app	ent, however, may a reply be tin utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered time the mailing date of this o	oly. communicátion.			
Status				•				
1)⊠	Responsive to communication(s) filed on 04	November 2	<u>003</u> .					
2a) <u></u> □								
3) 🗌	·							
	closed in accordance with the practice unde	r Ex parte Qu	<i>ayle</i> , 1935 C.D. 11, 4	53 O.G. 213.				
Disposit	on of Claims							
4)🖂	Claim(s) 1-16 is/are pending in the application	on.						
	4a) Of the above claim(s) is/are withd	rawn from co	nsideration.					
5) 🗌	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-16</u> is/are rejected.		·					
7) 🗀	Claim(s) is/are objected to.							
8)[	Claim(s) are subject to restriction and	d/or election r	equirement.					
Applicat	on Papers							
9)[	The specification is objected to by the Exami	iner.						
10)	The drawing(s) filed on is/are: a) $\square$ a	ccepted or b)	objected to by the	Examiner.				
	Applicant may not request that any objection to the		*	` '				
44)	Replacement drawing sheet(s) including the corr	•	• • •	·	` '			
11)	The oath or declaration is objected to by the	Examiner. No	ote the attached Office	Action or form P	TO-152.			
Priority ι	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for forei ☐ All b) ☐ Some * c) ☐ None of:	gn priority un	der 35 U.S.C. § 119(a	)-(d) or (f).				
	1. Certified copies of the priority docume	ents have bee	n received.					
	2. Certified copies of the priority docume	ents have bee	n received in Applicati	on No				
	3. Copies of the certified copies of the pr			ed in this National	Stage			
	application from the International Bure	•	,					
* \$	See the attached detailed Office action for a li	ist of the certi	fied copies not receive	ed.				
Attachmen	t(s)							
	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	ate	0.450			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	)8)	5) Notice of Informal P 6) Other:	atent Application (PTC	U-1 <b>5</b> 2)			

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## **DETAILED ACTION**

1. This Office action is in response to Application No. 10699,643, filed on 11/04/2003.

2. Claims 1-16 are pending.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-16 are rejected under 35 U.S.C. 102 (e) as being anticipated by Boneh et al (US 2003/0081785A1).

As per claims 1 and 9 Boneh discloses a system/method for identity-based encryption and related cryptographic techniques, comprising the steps of:

Generating system parameters, selecting a master key, and then disclosing the system parameters by a trust authority (see., abstract, figs 1-12, pages 1-21);

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Generating a private key by using a signer's identity and the master key, and then transferring the private key to the signer through a secure channel by the trust authority (see., abstract, figs 1-12, pages 1-21);

Receiving ans storing the system parameters by a user and receiving and storing the system parameters and the private key by the signer (see. abstract, figs 1-12, pages 1-21);

Computing a commitment by using at least one of the system parameters, and then sending the commitment to the user by the signer (see., abstract, figs 1-12, pages 1-21);

Blinding a message by using the commitment and a public key based on the signer's identity, and then sending the blinding message to the signer by the user (see.,); signing the blinding message by using the private key, and then sending the signed message to the user by the signer (see., figs 1-12, pages 1-21);

Unblinding the signed message by the user; and verifying the signature by the user (see., abstract, figs 1-12, pages 1-21).

As per claims 2-8 and 10-16 Boneh discloses the claimed method wherein the system parameters include g, q, p, Ppub, h and h1, where g is a cyclic group, q is g's order, p is a generator of g, Ppub is the trust authority's public key described by Ppub= s.p. where s is the master key, and h and h1 are hash functions, respectively, described by h: {0,1} -zq\* and h1: {0,1) -g, where zq\* is a cyclic multiplicative group; and

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The bilinear paring e is defined by e: g\*g - v, where v is a cyclic multiplicative group of the order q and uses the cyclic multiplicative group zq\* (see., figs 3-12, pages 3-21).

## Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pierre E. Elisca whose telephone number is 703 305-3987. The examiner can normally be reached on 6:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on 703 305-9769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Pierre Eddy Elisca

**Primary Patent Examiner** 

November 09, 2004